§ 69.179

TABLE 69.177(a)(5)—MINIMUM DISTANCE IN INCHES BETWEEN THE TONNAGE MARK AND THE LINE OF THE SECOND DECK-Continued

L (in feet)	L divided by D								
L (III leet)	12	13	14	15	16	17	18	19	20
750	155.3 157.8 160.2 162.6 165.1 167.5	140.8 143.1 145.4 147.6 149.9 152.1	128.5 130.6 132.7 134.8 136.9 138.9	117.8 119.7 121.7 123.7 125.6 127.4	108.4 110.3 112.1 113.9 115.7 117.4	100.1 101.9 103.6 105.3 107.0 108.6	92,8 94.4 96.0 97.6 99.2 100.8	86.1 87.8 89.3 90.8 92.3 93.8	80.3 81.7 83.2 84.7 86.1 87.4

L=the length in feet of the line of the second deck at the centerline of the vessel from the inner surface of the frames at the vessel's stem to the inner surface of the frames at the vessel's stem.

D=The vertical distance in feet from the top of the flat keel of the vessel to the line of the second deck.

EXAMPLE (1) For a vessel in which L=450 feet and L/D=15 feet, read down from the L/D column "450" to where the two columns intersect at 39.6. The tonnage mark must be located 39.6 inches below the line of the second deck.

EXAMPLE (2) If L or L/D is an intermediate number, the distance "a" between the tonnage mark and the line of the second deck must be obtained by linear interpolation. For a vessel in which L=424.80 feet and L/D=15.17:

L	Table L/ D=15	Actual L/ D=15.17	Table L/ D=16
Table 420	30.4		25.2
Actual 424.80	r	a	s
Table 430	33.3		27.9

Interpolation:

Interpolation: r=30.4+0.48 (33.3 - 30.4)=31.79 s=25.2+0.48 (27.9 - 25.2)=26.50 a=r - 0.17 (r - s)=31.79 - 0.17 (31.79 - 26.50)=30.89 inches

- (6) For the following vessels with a load line mark, the upper edge of the tonnage mark must be located at the level of the uppermost part of the load line grid:
- (i) Vessels assigned only one gross and one net tonnage under §69.175(c).
- (ii) Vessels for which a load line assigning authority certifies that the vessel's load line mark was located as though the second deck were the freeboard deck.
- (b) Line for fresh and tropical waters. (1) Except as under paragraph (b)(4) of this section, a horizontal line for fresh and tropical waters may be assigned at the vessel owner's request.
- (2) The line must be nine inches long and one inch wide and located above and to the left of the tonnage mark at a distance equal to one forty-eighth of the distance from the top of the flat keel to the tonnage mark. The tonnage mark and the line for fresh and tropical waters must be connected by a vertical line one inch wide. (See the figure in §69.183(a).)
- (3) The line for fresh and tropical waters must be designated by a welded bead or other permanent mark nine inches long placed along the upper edge of the line.
- (4) For vessels with a load line mark, if the load line assigning authority cer-

- tifies that the load line mark was located as though the second deck were the freeboard deck, a line for fresh and tropical waters must not be placed on the vessel.
- (c) Freeboard deck mark. A vessel assigned two gross and two net tonnages which has more than one deck and no load line mark assigned must have a mark on each side of the vessel with the same dimensions and location as the freeboard deck line mark under §42.13-20 of this chapter, except that the mark must be located directly above the tonnage mark.
- (d) The line of the second deck. The line of the second deck must not be marked on the side of the vessel.
- (e) Color of markings. All markings under this section must be maintained in either a light color on a dark background or a dark color on a light background.

§ 69.179 Certification of markings.

- (a) Before a certificate of measurement is issued for a vessel requiring a tonnage mark, a certification by a measurement organization under §69.15 that all markings meet the requirements of this subpart is required.
- (b) The Coast Guard, at any time, may verify markings under this subpart.

§69.181 Locating the line of the second deck.

(a) If the second deck is not stepped, the line of the second deck is the longitudinal line of the underside of the second deck at the side of the hull.